

<u>ITEM</u>	<u>ATC 810</u>	<u>AST</u>
<u>Fuel System</u>		
Tank Selection	Real 2 or 4 tank system of Cessna 400's Piper Navajo Beech Duke Operation and appearance identical to chosen aircraft	2 tanks Select right or left not both
Crossfeed	Yes	No
Fire Wall Shut Off	Yes (Navajo)	No
Fuel Quantity Indicator	Yes	Yes
Fuel Boost Pumps	Yes	Yes (nonfunctional)
Fuel Pressure gauges	Yes	No
Fuel Flow Meter	Yes	No
<u>Engine Instruments</u>		
Cylinder Head Temp	Yes	No
Oil Temp	Yes	Yes
Oil Pressure	Yes	Yes
Tachometer	Yes	Yes
Manifold Pressure	Yes	Yes
EGT	Yes	No
<u>Other Instruments & Indicators</u>		
Ammeter	Left/Right	No
Gyro Pressure	Yes	No
Altimeter	Yes	Yes (setting pressure moves indicator)
Turn Coordinator	Yes	Yes
Airspeed	Yes	Yes
Artificial Horizon	Yes	Yes
VSI	Yes	Yes

<u>ITEM</u>	<u>ATC 810</u>	<u>AST</u>
Compass	Yes	Yes
Landing Gear Lights	3 down 1 in transit	1 down
Landing Gear Warning Audio	Yes	No
Circuit Breakers	6	No
Clock	Yes	Yes
Flap Indicator	Yes	Yes
Pitch Trim Indicator	Yes	No
Roll Trim Indicator	Yes	No
Rudder Trim Indicator	Yes	No
Directional Gyro	Individual RMI HSI	Individual HSI
Stall Warning Audio	Yes	No
Annunciator Panel	11 Indicators with Press to Test	No
Instrument Lighting	Individual Post Lamps (variable intensity)	Indirect
Total Number of Dials and Indicators Excluding Radio Stack	51	24
<u>Radios</u>		
COM	1	2
NAV	2	2
RNAV	No	Yes
RMI	Yes	No
DME	Yes	Yes
ADF	Yes (RMI)	Yes (fixed azimuth card)
Marker Beacon	Yes	Yes
Transponder	Yes	Yes
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HSI	Yes	Yes
Morse Code Identification	No	Yes
Push to Talk Switch	Yes	No
Dual Glide Slope	Yes	No
<u>Controls</u>		
Elevator	Yes (weighted to aircraft selected)	Yes (minimal feel)
Aileron	Yes (weighted to aircraft selected)	Yes (minimal feel)
Rudder	Yes (weighted to aircraft selected) Realistic engine out feedback	Yes (minimal feel) No engine out feedback
Flaps	Yes	Yes
Throttle	Yes	Yes
Prop Pitch	Yes	Yes
Mixture	Yes	Yes
Roll Trim	Yes	No
Pitch Trim	Yes	Yes
Rudder Trim	Yes	Yes
Toe Brakes	Yes	No
Parking Brake	Push/Pull Handle	Rocker Switch
Cowl Flaps	Yes (reacts aerodynamically & controls engine temperatures)	No
<u>Special Effects/Devices</u>		
Engine Sound (Synchronization)	Yes Yes	Yes Yes
Flight Tracker (Variable Scale)	Yes Yes	Yes Yes

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Built in Cassette Player	No	Yes
Visual Display	No	Small CRT Black/White
Programmable Fuel	Yes	No
Area Programming EPROM	Yes	Yes
Positioning (IAF, etc.)	Yes	Yes
Real World COM/NAV Frequency	Yes	Yes
Instructor Fault Panel	Yes (28 items)	Yes (17 items)
Turbocharged Simulation	Yes	Optional
Surface Ice	Yes	No
Deice Boots	Yes	No
Pitot Heat	Yes	Yes (nonfunctional)
<u>Functions/Relationships</u>		
Stall	Wing Drop/Pitch	Pitch only
VMC Effect	Yes	Yes
Turn Rate vs Angle of Bank	Yes	Yes
Wind Shear	Yes	Yes
Ground Taxi (Heading Change for Takeoff)	Toe Brakes Rudder Differential Power	Differential Power only
Mixture Leaning	Affects Fuel Flow, EGT	No
RPM Affects Manifold Pressure	Yes	No
Prop Feather Affects	RPM Manifold Pressure Pitch Yaw Roll VSI Airspeed Heading	RPM only Feathering prop only without throttle or mixture allows engine to still develop full power. At no time does feathering the prop affect anything other than RPM.